Appendix E: Technical Course Listing by Rotational Assignment Area

Area	Training Course Title	Training Source
All	GSFC-PT-TOMS GSFC-NASA Task Order Management Systems (TOMS) 2.0	SATERN
Reliability & Maintainability Engineer	Reliability Management	Commercial
	RAM Management	
	Probabilistic Analysis	
	Reliability Testing	
	SMA-RM-WBT-221 Design for Reliability	SATERN (STEP)
	SMA-RM-WBT-361 FMEA/CIL and FMECA	
	SMA-RM-WBT-241 Reliability, Availability, And Maintainability (RAM) Planning for Programs and Projects	
	SMA-SS-WBT-0009 Basic Fault Tree Analysis I	
System Safety Engineer	SMA-SS-WBT-0002 System Safety Fundamentals	SATERN (NASA Safety Training Center and STEP)
	SMA-002-07 Overview of Mishap Investigations	
	SMA-SAFE-NSTC-0016 Payload Safety Process and Requirements	
	SMA-SS-WBT-210 System Safety I	
	SMA-SAFE-NSTC-0023 SMA in Acquisition	
	SMA-SA-WBT-231 Software System Safety	
	SAFE-NSTC-0036 Battery Safety	
	SMA-QE-EXTW-262 Root Cause Analysis	
	ARC-003-06 Cryogenics Safety	
	SMA-SAFE-NSTC-0317 Safety in High Pressure Systems	
	SMA-RISK-OSMA-0012 System Safety II	
	SMA-002-06 Introduction to Mishap Investigations	
Systems Review Management	Independent Review Board Member Training*	TBD
	Managing Team Dynamics*	
	Leadership and Management Skills*	
Supply Chain Manager	Supply Chain Database Training	TBD
	Supplier Assessment GPR Training	
	Introduction to ISO 9001 and Introduction to AS9100*	
	Auditor 2-day Training Class	
	Lead Auditor Training	
	SOARIS System, SAS Database, and Supplier Assessment DB Training	
Operations Research Analyst	On the job training	NA
The following training applies to the CSO position		
CSO	CSO University* (given once a year)	Code 300
	S&MA Data Base Use*	
	Review of the GSFC Standard Mission Assurance Requirements* (MAR)	
Contamination Control	EDT-009-04 Space Environment and Contamination Effects	SATERN
GIDEP Alerts & Problem Solving	GPR 5340.3 Preparation and Handling of Alerts and Safe Alerts	SATERN (STEP)
	SMA-QE-WBT-265 GIDEP Overview	
Nonconformance Systems	Incident Reporting Information System (IRIS) training is available upon request to hostsupport@Ex3.com. SATERN course expected in late 2011.	
	SMA-QE-WBT-263 Material Review Board	
Parts, Materials, and Process (PMP)	SMA-RM-WBT-311 Parts And Materials Assessment I (IEEE, Mechanical, /Derating) Mechanical Derating) Parts Stress Derating	
	EDT-009-03 Radiation: Testing Overview	
Quality Assurance/ Engineering	GPR 1410.1 Directives Management	Office of Human Resources (ISO 9000/QMS Presentations)
	GPR 1440.7 Records Control	
	GPR 1710.1 Corrective and Preventive Action	
	GPR 4520.2 Incoming Inspection and Test	
	GPR 5100.2 Supplier Performance Evaluations	
	GPR 5100.3 Quality Assurance Letter of Delegation	
	GPR 5330.1 Product Processing, Inspection and Test	
	GPR 5340.2 Control of Nonconformance's	
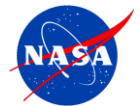
	GPR 6400.1 Handling, Storage, Packaging, Marking, Preservation and Transportation	
	GPR 8730.1 Calibration and Metrology	
	GPR 9980.1 Internal Audit System	
	Spacecraft QA Integration and Testing	
	SMA-QE-EXTW-262 Root Cause Analysis	SATERN (NASA Safety Training Center)
	SMA-SAFE-NSTC-0074 Range Safety Orientation	
	SMA-QE-WBT-217 Audits	
	SMA-QE-WBT-226 Configuration Management	
	SMA-QE-WBT-218 Quality Assurance Surveillance Plan	
	SMA-QE-WBT-256 Hardware/Software Service Acceptance	
	SMA-QE-WBT-215 Lessons Learned	
	SMA-035-01 Metrology and Calibration	
	SMA-QE-WBT-261 Corrective Action And Problem Reporting Systems Overview	SATERN (STEP)
	SMA-QE-WBT-241 Manufacturing Processes Overview	
	SMA-QE-WBT-255 Qualification	
	SMA-QE-WBT-251 Inspection Control and Personal Warranty	
	SMA-QE-WBT-361 Corrective Action and Problem Reporting Systems	
	SMA-QE-WBT-253 Testing	
	SMA-QE-WBT-212 Workforce Development, Training and Certification	
	SMA-QE-WBT- 223 Workmanship Standards Overview	
Risk Management	SMA-CORE-WBT-RM Risk Management for STEP	SATERN (STEP)
Software Assurance	SMA-SA-WBT-320 Software Assurance Planning and Management	SATERN (STEP)
	SMA-SA-WBT-231 Software System Safety	

* Enabling Training Courses

Note: For additional STEP (Safety and Mission Assurance Technical Excellence Program) courses in the Reliability, Quality, System Safety, and Software Assurance engineering disciplines, open "SMA Training Curricula" at the Enabling Training link http://sma.gsfc.nasa.gov/smart/enabling_training.php.